C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

8.24.a BURF for Vacuum Group

C-A-OPM Procedures in which this Attachment is used.		
8.24		

Hand Processed Changes

HPC No.	Date	Page Nos.	Initials
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Approved: _____ _____
Collider-Accelerator Department Chairman Date

L. Stiegler

BNL Beryllium Use Review Form

Dept **C-A**	**Building** **911A**	**Room (Area, Location)** **144, Vacuum Lab**

Users (Name/Life#) or (Job Title):

Vacuum group technicians

Status of beryllium use:
__X_ In use on frequent basis ___ Planned use in the near future ___ Possible Future Use
___ No planned use: ___ keep ____ dispose ___ Legacy (inherited): ___ keep ____ dispose

Describe Use or Process (such as Analytical Standard, Window, Beam Tube, Attenuator, Sample Holder, Stock Material, etc):

__X_Meets definition of "Article" ____ Meets definition of "laboratory use"

Describe Handling Procedure: (such as "*article removed from storage bag, and inserted into holder, without the need for physical alteration of article*")
Article removed from storage bag and placed in test fixture

Potential for Airborne Exposure Assessment: (include measured or predicted air concentration and method of determining concentration)

No airborne exposure expected based on previous experience at BNL

Amount used: (such as grams per month)
Varies

Frequency of use: (such as # days per year or month, # tests per year, in continuous use, etc.)

6 tests/year

Precautions during Use: (check all that apply)	**Storage:** (check all that apply)
___ Always opened and used in lab hood	___ In vented cabinet
_x_ Handled on lab bench or room	___ On lab shelf, lab bench, or cabinet
___ Used in closed system	___ Inside lab hood
___ Other:	Other:
___ Parts encapsulated	_x__ Stored in labeled bags or bottles
___ Parts coated	_x__ Locked area/cabinet, access control

Written Documentation:

___ Experimental Review (1.3.5)	____ Material recorded in CMS Inventory
___ Work Permit (1.3.6)	__x__ Static inventory
___ Written SOP (describe):	____ Each part bar coded

Personal Protective Equipment used:

_x__ Gloves (describe material, thickness): vinyl or nitrile disposable
___ Impervious suit ___ Lab coat ___BNL laundered clothing
___ Respirator, type:

Spill, Release, Breakage Clean-up Plan (Describe possible release scenario and action, including clean-up worker training, exposure monitoring, personal protective equipment, and disposal):

- Broken Be windows must be handled with care to avoid injury from sharp pieces and to avoid dispersal of any Be dust.
- Workers must don disposable nitrile or vinyl gloves before collecting large pieces by hand. Large pieces should be placed in a rigid container, or heavy plastic bag, to avoid injury from sharp edges. Collection with tongs, tweezers, or forceps is preferable.
- Surfaces contaminated with broken articles should be wiped with alcohol soaked rags after collection of large pieces to remove smaller pieces and any dust.
- After wiping with alcohol-soaked rags, surfaces should be vacuumed with a dedicated beryllium HEPA filtered vacuum.
- Wipe samples should be done on all surfaces to ensure complete cleanup. This can be arranged through the ES&H Coordinator.
- All waste must be labeled and disposed of as Hazardous Waste.

Pollution Prevention Plan: (Describe pollution prevention and waste minimization measures):

A dedicated beryllium vacuum cleaner is available to avoid the introduction of mixed waste.

End of Project Plan: (Describe the actions when the use of beryllium is no longer needed, including accounting for material consumption and funding of disposal):

Any unused beryllium will be disposed of as hazardous waste, or returned to the manufacturer if possible.

Completed by: Lori Stiegler	**Date:** **5/23/01**
Reviewed by: **Asher Etkin**	**Date:** **5/23/01**
Approved by: **Lori Stiegler**	**Date:** **5/23/01**